

Identity :**Nickel Cadmium Battery**

(closed cylinder)

**Material Safety
Data Sheet**

Complies with the OSHA Hazard
Communication Standard :
29 CFR 1910 1200

Makita U.S.A., Inc. 14930-C Northam Street La Mirada, CA 90638	Prepared By :	Stan Rodrigues
	Date Revised:	11/8/2000
Emergency Telephone Number : CHEMTREC: 800-424-9300		
Telephone Number for Information : MAKITA: 510-657-9881		

Hazardous Components :

		Percent	OSHA PEL	ACGIH TLV
Each cell is a sealed container, enclosing a nickel electrode, a cadmium electrode, and a potassium hydroxide electrode.	Nickel	20-30 %	No	1 mg./m3
	Cadmium	13-15 %	No	0.2 mg./m3
	Cobalt	1-2 %	No	0.1 mg./m3
	Potassium	2-4%	No	2 mg./m3

Physical Data:

Boiling Point	N/A	Solubility in Water	N/A
Vapor Pressure	N/A	Specific Gravity	N/A
Vapor Density	N/A	Melting Point	N/A
Appearance	N/A	Evaporation Rate	N/A

Fire and Explosion Data :

Flash Point	N/A	Flammable Limits	N/A
Extinguishing Media	N/A		
Special Fire Fighting Procedures	N/A		
Unusual Fire and Explosion Hazards	Cadmium fumes may be released during burning.		

Reactivity Data :

Stability	Unstable	N/A	Conditions to Avoid	Burning, rupturing
	Stable	N/A		
Incompatibility (materials to avoid)			N/A	
Hazardous Decomposition or Byproducts			N/A	
Hazardous Polymerization	May Occur		Conditions to Avoid	N/A
	Will Not Occur X			

Health Hazards :

Routes of Entry:	Inhalation?	N/A	Skin?	Yes	Ingestion?	N/A
Health Hazards (acute and chronic)						
Nickel and Cadmium are known to be Carcinogenic.						
Carcinogenicity:	NTP?		IARC Monographs?		OSHA Regulated?	
Yes	No		No		No	
Effects of Overexposure						
N/A						
Emergency and First Aid Procedure			Electrolyte is caustic. DO NOT allow skin or eye contact.			
Eyes : Flush with water for 15 minutes follow-up with medical attention is absolutely necessary.						
Skin : Flush with vinegar or other mild acid to neutralize the electrolyte.						

Safe Handling and Use Procedures :

Steps to Be Taken If Material Is Spilled Or Released Flush electrolyte spills with water.	
Waste Disposal Method Follow local, state, and federal regulations. DO NOT incinerate or mutilate, may burst or release toxic materials.	
Handling and Storage Precautions DO NOT short circuit, may cause burns.	

Control Measures :

Respiratory Protection		N/A
Ventilation	Local Exhaust	Not required
	Mechanical	Not required
Protective Gloves		N/A
Eye Protection		N/A
Other Protective Equipment		N/A